**Meteorological Data**

**GKMS/Darisai (54)**

**Month:** July 2020

**Day:** 11

**Wind direction:** SW

**Wind speed (km/hr):** 8

**Minimum Temperature (°C):** 28

**Maximum Temperature (°C):** 41

**Rainfall:** 43.8 mm

**Deviation:** 5/6

**Forecast data for the following 5 days received from IMD**

<table>
<thead>
<tr>
<th>Day</th>
<th>Weather index</th>
<th>Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 Jul</td>
<td>24</td>
<td>5/6</td>
</tr>
<tr>
<td>09 Jul</td>
<td>20</td>
<td>5/6</td>
</tr>
<tr>
<td>10 Jul</td>
<td>24</td>
<td>5/6</td>
</tr>
<tr>
<td>11 Jul</td>
<td>45</td>
<td>5/6</td>
</tr>
<tr>
<td>12 Jul</td>
<td>24</td>
<td>5/6</td>
</tr>
</tbody>
</table>

**Weather Index**

- **32**: Cool
- **26**: Normal
- **20**: Warm
- **18**: Very warm
- **15**: Very hot

**Agrometeorological News Bulletin for Pet journalist**

**Ref:** GKMS/Darisai (54) 11 July 2020

**Ph No:** 9332742974(m) 7460400464(m)

**GRAMIN KRISHI MAUSAM SEWA
BIRSA AGRICULTURAL UNIVERSITY**

**Research Station Darisai**

**India Meteorological Department, Meteorological centre Ranchi** receive forecast data from

**Ministry of Earth Science New Delhi Government of India for Zonal Research Station
Darisai under BIRSA Agricultural University for the next 120 hours

**Kro Emery**

**Agrometeorological Station for Farmers**

**GKMS/ Darisai (54)**

**For the next 5 days**

**08 Jul:** Cool

**09 Jul:** Normal

**10 Jul:** Warm

**11 Jul:** Very hot

**12 Jul:** Very hot

In the coming days, there is a sight to penetrate hard and dry until 35 mm in depth. Day and night temperature is likely to decrease as compared to previous few days, due to light fog and cloud cover. Day temperature is expected to increase from 38°C to 40°C whereas minimum temperature is likely to remain around 28°C. Rainfall is likely to occur over the next 5 days, with highest rainfall expected to occur on the nights of 10th and 11th July. Rainfall is expected to be in amounts of 50-70 mm per day.

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In the coming days, there is a sight to have general shade and 24 mm rain on day and high temperature to be a little decrease as compare to previous days. Due to the availability of moisture, there is a high chance to get diseases and pests. The maximum temperature is expected to be 45°C between 10 to 11 am and the flow of air is mainly southwesterly flow from South Eastern direction. According to the forecast the monsoon rain will continue later keeping the current condition and the possibility of medium rain (more than the normal rain – from 10 to 17 mm) over 10.31 am/day in the following succeeding five days. start transplating after preparing lands.

**General Advisory**

- **Crop of the time:**
  - To follow the original procedure, farmers should plant sorghum  on 20:10:10 kg NPK per acre, for Moongbean 4:8:4 kg NPK per acre and in Lobia 2.25 kg NPK per acre.
  - At the time of direct seeded rice sowing follow sowing of intercrop seed.
  - In the following days, therefore, farmers should be careful about the moisture content in the field.
  - To maintain proper soil moisture level near to field capacity, farmers are advised to divert rain water coming from higher slope to their main field.
  - Farmers are advised to maintain the water level near to 10 cm for rice for 15 days and 20 cm for sorghum for 30 days after sowing. The rice plants are die by maintaining low water which is helpful to control the disease of the field.

**Crops:***

- To get good grain in coming days, the optimal time for transplanting of paddy is 20:30 days after sowing.
- Before transplanting treat the seed with fungicide viz. Thiram @ 2.5 g or B Manhattan @ 18 kg.
- Urea @ 12 kg is required for one acre land by splitting whole into three equal (1/3 acre land) and 2 kg of nitrogen is applied in two equal doses and topdressed on 15 and 30 days after sowing. Prepare land by incorporating well rotten FYM or Compost @2 tonne per acre and spread it uniformly and then follow the transplanting after preparing lands.

**Transplanting:**

- To transplant rice 240 days after transplanting after preparing lands.
- After receiving rains of 30 mm in 3 days, may start sowing of Moong, Arhar, Green gram, black gram, Gramin Krishn as it releases in quotes price which helps to get a good profit.

**Fertilizer:**

- The NPK application in rice is recommended at 10:20:20 kg NPK per acre. The NPK application in sorghum is recommended at 20:20:15 kg NPK per acre. The NPK application in pigeonpea is recommended @13:3:15 kg NPK per acre.

**Disease:**

- To control the disease of sorghum, farmers should use Sulfex WP @ 25 g per liter of water.
- To control the disease of pigeonpea, farmers should use Thiram @ 25 g per liter of water.
- To control the disease of rice, farmers should use Molybdenum @ 20 ml per kg seed.

**Pesticide:**

- To control the disease of sorghum, farmers should use Sulfex WP @ 25 g per liter of water.
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**Weed:**

- To control the weed of sorghum, farmers should use Puspa @ 120 kg per acre.
- To control the weed of pigeonpea, farmers should use Thiram @ 25 g per liter of water.
- To control the weed of rice, farmers should use Molybdenum @ 20 ml per kg seed.

**Temperature:**

- To control the temperature, farmers should use Molybdenum @ 20 ml per kg seed.

**Weather indicators**

- For general advisory, farmers are advised to collect the weather indicators as per the field condition.

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<td>9 mm</td>
<td>14</td>
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<td>35</td>
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<td>25</td>
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</tr>
<tr>
<td>Humidity %</td>
<td>70</td>
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<tr>
<td>Rainfall (mm)</td>
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In the coming days, there is a high vigilance required. The rainfall and humidity levels are expected to be high, leading to a higher risk of fungal diseases. Farmers are advised to be prepared to take immediate action to control disease outbreaks. Additionally, there is a high risk of termite damage, and farmers should take preventive measures to protect their crops. The days are likely to be sunny with high temperature variations, so farmers are advised to monitor crops closely and take necessary actions to maintain optimal moisture levels.

The following advisory is provided for the upcoming days:

**General Information**
- Rainfall: 20-30 mm per day
- Humidity: 90-95%
- Temperature: 30°C to 35°C
- Wind speed: 5-10 km/hr

**Crop Management**
- **Lowland Rice**: Expect low rainfall in the coming days, leading to a risk of waterlogging. Farmers are advised to keep paddy nursery under 20 cm deep water. If cloudy weather appears, spray Sulfex WP @ 3 g per liter of water to check the occurrence of disease. New In case of leaf blight, use Chlorpyriphos 20 EC @ 2 g per kg seed followed by insecticide viz. Bavistin @ 2 g per kg seed.
- **Medium Land Rice**: Expect low rainfall, leading to a risk of waterlogging. Farmers are advised to keep paddy nursery under 20 cm deep water. If cloudy weather appears, spray Sulfex WP @ 3 g per liter of water to check the occurrence of disease. New In case of leaf blight, use Chlorpyriphos 20 EC @ 2 g per kg seed followed by insecticide viz. Bavistin @ 2 g per kg seed.

**Crop Protection**
- **Termite Control**: Farmers are advised to apply Neem or Karanj cake @ 200 kg or Methyl parathion @ 10 kg per hectare for termite control.
- **Weed Control**: Farmers are advised to apply 20% paraquat or glyphosate for weed control.
- **Irrigation**: Farmers are advised to follow a drip irrigation system to save water and ensure even water distribution.

**Crop Health**
- **Lowland Rice**: The crop is at tillering stage, so, seeing the condition of field moisture, weeding should be followed. Depending on the type and density of weeds, farmers can choose hand weeding or use herbicides. For competition with weeds, apply fertilizer as per crop undertaken for intercrop. Since, in intercrop the cropped area becomes half and in some cases on the cropped area, it can be reduced to one-third. Therefore, half the recommended rate of fertilizer should be applied.
- **Medium Land Rice**: The crop is at vegetative stage and due to high temperature and humidity, pop weevil and storage grain pests are likely to attack. New Farmers are advised to use 20% paraquat or glyphosate for weed control.

**Agrometeorological Forecast**
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